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☐ 1. Document ID: JP 08325447 A

L1: Entry 1 of 2

File: JPAB

Dec 10, 1996

PUB-NO: JP408325447A

DOCUMENT-IDENTIFIER: JP 08325447 A

TITLE: READILY DISINTEGRABLE COMPOSITION

PUBN-DATE: December 10, 1996

## INVENTOR-INFORMATION:

NAME

COUNTRY

NOAKI, NORIO

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

CHISSO CORP

APPL-NO: JP07158663

APPL-DATE: June 1, 1995

INT-CL (IPC): C08 L 67/04; C08 K 5/053; C08 K 5/20; C08 K 5/21; C08 L 1/02; C08 L 29/04

## ABSTRACT:

PURPOSE: To obtain a readily disintegrable composition that can give a formed item such as a container or a bag made of a film or a sheet the peeling strength of the heat-sealed section of which may be varied under different conditions by mixing a denatured starch polymer and other specified components.

CONSTITUTION: This composition is prepared by mixing (5 to 25wt.% of at least one denatured starch polymer (A) selected from among chemically denatured starch derivatives obtained by denaturing raw starches such as corn starch and potato starch, chemically decomposed and denatured starches, enzymatically denatured starches, etc), (0.5 to 6wt.% water that may be the water contained in the component (A), (10 to 30wt.% ethylene/vinyl alcohol copolymer resin having an ethylene content of 30 to 50mol% and a molecular weight of 13,000 to 11,000, (50 to 60wt.% polycaprolactone having a molecular weight of 40,000 to 100,000, (2 to 7wt.% glycerol), (0.05 to 1wt.% of alkylene bis-higher fatty acid amide as a slip agent) (0.5 to 10wt.% urea) (a thermoplastic resin as a flowability improver) and, (if necessary, a filler, a lubricant, etc. The composition is made into a film, for example, by a single-screw extruder.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☐ 2. Document ID: JP 08325447 A

L1: Entry 2 of 2

File: DWPI

Dec 10, 1996

DERWENT-ACC-NO: 1997-083587

DERWENT-WEEK: 199708

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TITLE: Readily biodegradable compsn. useful for differing peel strength films - comprises modified starch, water, ethylene@!-vinyl! alcohol copolymer, polycaprolactone, glycerol, fatty acid amide and urea, for sheet

PRIORITY-DATA: 1995JP-0158663 (June 1, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 08325447 A	December 10, 1996		006	C08L067/04

INT-CL (IPC): C08 K 5/053; C08 K 5/20; C08 K 5/21; C08 L 1/02; C08 L 29/04; C08 L 67/04

ABSTRACTED-PUB-NO: JP08325447A

## BASIC-ABSTRACT:

Readily disintegrable resin compsn(s). (I) comprise:

- (A) 5-25 wt.% modified starch;
- (B) 0.5-6.0 wt.% moisture;
- (C) 10-30 wt.% ethylene/vinyl alcohol copolymer(s);
- (D) 45-65 wt.% polycaprolactone;
- (E) 2-7 wt.% glycerol;
- (F) 0.05-1 wt.% fatty acid amide(s); and
- (G) 0.05-10 wt.% urea.

USE - (I) is useful as material for prepn. of sheets and films.

ADVANTAGE - (I) has biodegradability. Sheets and films of (I) have different peel strength on heat sealing temp. (claimed).

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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**Search Results - Record(s) 1 through 2 of 2 returned.**☐ 1. Document ID: JP 08245836 A

L2: Entry 1 of 2

File: JPAB

Sep 24, 1996

PUB-NO: JP408245836A  
DOCUMENT-IDENTIFIER: JP 08245836 A  
TITLE: EASILY DEGRADABLE COMPOSITION

PUBN-DATE: September 24, 1996

## INVENTOR-INFORMATION:

NAME

COUNTRY

NOAKI, NORIO

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

CHISSO CORP

APPL-NO: JP07077309

APPL-DATE: March 8, 1995

INT-CL (IPC): C08 L 3/02; C08 K 5/098; C08 K 5/20; C08 L 23/26; C08 L 67/04; C08 L 101/00

## ABSTRACT:

PURPOSE: To obtain an easily degradable composition which can give an inflation film or sheet improved in opening properties and slipperiness by mixing a starch-based polymer with water, a thermoplastic resin and a fatty acid amide or/and a fatty acid metal salt.

CONSTITUTION: This composition is prepared by mixing 5-80wt.% at least one starch-based polymer selected from among raw starch, a chemically modified starch derivative prepared by modifying raw starch, a chemical-decomposition- modified starch, an enzymatically modified starch and a physically modified starch with 0.5-30wt.% water, 49-4.4wt.% thermoplastic resin comprising an ethylene/vinyl acetate copolymer saponificate having an ethylene content of 0.01-60mol%, a molecular weight of 100-500,000 and a degree of saponification of 0.01-99.9 % or/and polycaprolactone and 1wt.% or below alkylenebis higher fatty acid amide, a fatty acid amide composition or/and a fatty acid metal salt.

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☐ 2. Document ID: JP 08245836 A

L2: Entry 2 of 2

File: DWPI

Sep 24, 1996

DERWENT-ACC-NO: 1996-482357  
DERWENT-WEEK: 199648  
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TITLE: Easily degradable compsn. having good mouldability - consists of a starch-type polymers, water, biodegradable thermoplastic resins and alkylene-bis higher fatty acid amide(s) and fatty acid amide compsns, etc. as lubricants

PRIORITY-DATA: 1995JP-0077309 (March 8, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 08245836 A	September 24, 1996		006	C08L003/02

INT-CL (IPC): C08 K 5/098; C08 K 5/20; C08 L 3/02; C08 L 23/26; C08 L 67/04; C08 L 101/00

ABSTRACTED-PUB-NO: JP08245836A  
BASIC-ABSTRACT:

An easily degradable compsn. consists of: (A) starch;-type polymers: (B) water; (C) biodegradable thermoplastic resins; and (D) alkylene bis higher fatty acids amides and fatty acid amide compsns. and/or metal salts of fatty acids as lubricants. Pref. the amts. of (A), (B), (C) and (D) are 5-80 wt.%, 4.4 wt.%, 0.5-30 wt.%, and up to 1 wt.% respectively. (A) are raw starch- and/or modified starch-type polymers. (C) are (a) saponified ethylene-vinyl acetate copolymers and/or polycaprolactone. (A) have an ethylene content of 0.01-60 mol.%, a mol. wt. of 100-500,000 and a degree of saponification of 0.01-99.99%.

ADVANTAGE - The compsn. has good mouldability and provides an inflation film having good slip properties and opening nature.

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